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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 10

Complete if Known	
Application Number	09/981,312
Filing Date	10/15/2001
First Named Inventor	Mitchell A. Avery
Art Unit	1614
Examiner Name	Andrea D. Souza Small
Attorney Docket Number	1786

U. S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear
		Country Code ³ ~Number ⁴ ~Kind Code ⁵ (if known)			
		WO 98/54966	12/10/1998	Merck & CO, Inc	
		WO 99/02514	01/21/1999	Bristol Meyers Squibb	
		WO 99/67253	12/29/1999	Novartis AG et al.	
		WO 99/67252	12/29/1999	Novartis AG et al.	
		WO 99/66028	12/23/1999	Novartis AG et al.	
		WO 99/59985	11/25/1999	Novartis AG et al.	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 2 of 10

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		WO 99/54330	10/28/1999	Bristol Meyers Squibb	
		WO 99/54318	10/28/1999	Bristol Meyers Squibb	
		WO 99/43653	09/02/1999	Sloan Kettering	
		WO 98/25929	06/18/1998	Novartis AG et al.	
		WO 99/42602	08/26/1999	Novartis AG et al.	
		WO 02/08440	01/31/2002	Kosan Bioscience	

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ANSWER SHEET
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Sheet 3 of 10

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Art Unit	1614
Examiner Name	Andrea D. Souza Small
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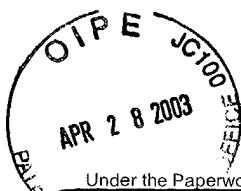
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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)			
		WO 01/73103	10/04/2001	Bristol Meyers Squibb	
		WO 01/70716	09/27/2001	Bristol Meyers Squibb	

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STATEMENT BY APPLICANT***(Use as many sheets as necessary)*

Sheet 4

of 10

Application Number	09/981,312
Filing Date	10/15/2001
First Named Inventor	Michell A. Avery
Art Unit	1614
Examiner Name	Andrea D. Souza Small

Attorney Docket Number 1786

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		HOFLE, G.; GLASER, NO.; LEIBOLD, T.; SEFKOW, M. Epothilone A-D and their Thiazole-Modified Analogs as Novel Anticancer Agents. Pure and Applied Chemistry 1999, Volume 71, Pages 2019-2024.	
		ZHU, B.; PANEK, J.S. Total Synthesis of Epothilone A. Organic Letters 2000, Vol. 2, Pages 2575-2578.	
		STACHEL, S.J.; CHAPPELL, M.D.; LEE, C.B.; DANISHEFSKY, S.J.; CHOU, T.C.; HE, L.; HORWITZ, S.B. On the Total Synthesis and Preliminary Biological Evaluations of 15(R) and 15(S) Aza-dEpoB: A Mitsunobu Inversion at C15 in Pre-Epothilone Fragments. Organic Letters 2000, Vol. 39, Pages 1637-1639	
		SAWADA, D.; SHIBASAKI, M. Enantioselective Total Synthesis of Epothilone A Using a Multifunctional Asymmetric Catalyses. Angewandte Chemie, International Edition 2000, Vol. 39, Pages 209-213.	
		KALESSE, M.; QUITSCHALLE, M.; CLAUS, E.; GERLACH, K.; PAHL, A.; MEYER, H.H. The Formal Total Synthesis of Epothilone A. European Journal of Organic Chemistry 1999, Pages 2817-2823.	
		WHITE, J.D.; SUNDERMANN, K.F.; CARTER, R.G. Improved Synthesis of Epothilone B Employing Alkylation of an Alkyne for Assembly of Subunits. Organic Letters 1999, Vol. 1, Pages 1431-1434.	
		SCHINZER, D.; BAUER, A.; SCHIEBER, J. Synthesis of (-)-Epothilone B. Chemistry--A European Journal 1999, Vol. 5, Pages 2492-2500.	
		NICOLAOU, K.C.; HEPWORTH, D.; FINLAY, M.R.V.; PAUL KING, N.; WERSCHKUN, B.; BIGOT, A. Synthesis of 16-Desmethylepothilone B: Improved Methodology for Rapid, Highly Selective and Convergent Construction of Epothilone B and and Analogs. Chemical Communications (Cambridge) 1999, Pages 519-520.	

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INFORMATION DISCLOSURE
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Sheet 5

of 10

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First Named Inventor	Mitchell A. Avery
Art Unit	1614
Examiner Name	Andrea D. Souza Small

Attorney Docket Number 1786

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		TAYLOR, R.E.; GALVIN, G.M.; HILFIKER, K.A.; CHEN, Y. A Formal Synthesis of Epothilone A: Enantioselective Preparation of the C1-C6 and C7-C12 Fragments. Journal of Organic Chemistry 1998, Vol. 63, Pages 9580-9583.	
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		NICOLAOU, K.C.; SARABIA, F.; NINKOVIC, S.; FINLAY, M.R.; BODDY, C.N.C. Probing the Ring Size of Epothilones: Total Synthesis of [14]-, [15]-, [17]-, and [18] Epothilones A. Angewandte Chemie, International Edition 1998, Vol. 37, Pages 81-84.	

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		Art Unit	1614		
		Examiner Name	Andrea D. Souza Small		
Sheet	6	of	10	Attorney Docket Number	1786

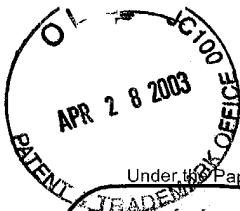
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		NICOLAOU, K.C.; SARABIA, F.; FINLAY, M.R.V.; NINKOVIC, S.; KING, N.P.; VOURLOUMIS, D.; HE, Y. Total Synthesis of Oxazole- and Cyclopropane-Containing Epothilone B Analogs by the Macrolactonization Approach. Chemistry--A European Journal 1997, Vol. 3, Pages 1971-1986.	
		NICOLAOU, K.C.; VALLBERG, H.; KING, N.P.; ROSCHANGAR, F.; HE, Y.; VOURLOUMIS, D.; NICOLAOU, C.G. Total Synthesis of Oxazole- and Cyclopropane-Containing Epothilone A Analogs by the Olefin Metathesis Approach. Chemistry--A European Journal 1997, Vol. 3, Pages 1957-1970.	
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		MENG, D.; BERTINATO, P.; BALOG, A.; SU, D.-S.; KAMENECKA, T.; SORENSEN, E.; DANISHEFSKY, S.J. Total Synthesis of Epothilones A and B. Journal of the American Chemical Society 1997, Vol. 119, Pages 10073-10092.	
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		YANG, X.; HE, Y.; VOURLOUMIS, D.; VALLBERG, H.; NICOLAOU, K.C. Total Synthesis of Epothilone A: The Olefin Metathesis Approach. Angewandte Chemie, International Edition in English 1997, Vol. 36, Pages 166-168.	

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		SCHINZER, D.; LIMBERG A.; BAUER, A.; BOEHM, O.M.; CORDES, M. Total Synthesis of (-)-Epothilone A. <i>Angewandte Chemie, International Edition</i> in English 1997, Vol. 36, Pages 523-524.	
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		SU, D.-S.; MEND, D.; BERTINATO, P.; BALOG, A.; SORENSEN, E.J.; DANISHEFSKY, S.J.; ZHENG, Y.-H.; CHOU, T.-C.; HE, L.; HORWITZ, S.B. Total Synthesis of (-)-Epothilone B: An Extension of the Suzuki Coupling Method and Insights into Structure-Activity Relationships of the Epothilones. <i>Angewandte Chemie, International Edition</i> in English 1997, Vol. 36, Pages 757-759.	
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NON PATENT LITERATURE DOCUMENTS

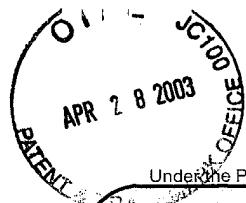
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		BOLLAG, D.M.; MCQUEENEY, P.A.; ZHU, J.; HENSENS, O.; KOUPAL, L.; LIESCH, J.; GOETZ, M.; LAZARIDES, E.; WOODS, C.M. Epothilones, A New Class of Microtubule-Stabilizing Agents with a Taxol-Like Mechanism of Action.	
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		KUMAR, G.N.; WALLE, U.K.; WALLET, T. Cytochrome P450 3A-Mediated Human Liver Microsomal Taxol 6a-Hydroxylation. The Journal of Pharmacology and Experimental Therapeutics 1994, Vol. 268, Pages 1160-1165.	
		SCHRODER, M. Osmium Tetraoxide Cis Hydroxylation of Unsaturated Substrates. Chemical Review 1980, Vol. 80, Pages 187-213.	

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of

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Application Number	09/981,312
Filing Date	10/15/2001
First Named Inventor	Mitchell A. Avery
Art Unit	1614
Examiner Name	Andrea D. Souza Small

Attorney Docket Number 1786

NON PATENT LITERATURE DOCUMENTS

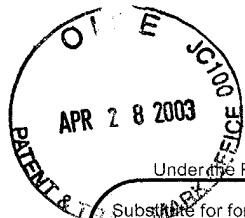
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		HASEHM, M.A.; JUNG, A.; RIES, M.; KIRSCHNING, A. Errata and Addenda 1998, Page 195.	
		DEBRABANDER, J.; ROSSET, S.; BERNADINELLI, G. Errata and Addenda 1997, Page 824.	
		MULZER, J.; MANTOULIDIS, A.; OHLER, E. Total Synthesis of Epothilones B and D. Journal of Organic Chemistry 2000, Vol.65, Pages 7456-7467.	
		BORZILLERI, R.M.; ZHENG, X.; SCHMIDT, R.J.; JOHNSON, J.A.; KIM, S.-H.; DIMARCO, J.D.; FAIRCHILD, C.R.; GOUGOUTAS, J.Z.; LEE, F.Y.F.; LONG, B.H.; VITE, G.D. A Novel Applicaiton of a Pd(0)- Catalyzed Nucleophilic Substitution Reaction to the	
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		ANDERSSON, P.G.; SHARPLESS, K.B. A Dramatic Ligand Effect on the Relative Reactivities of Substituted Alkenes with Osmium Tetroxide. Journal of the American Chemical Society 1993, Vol. 115, Pages 7047-7048.	
		NICOLAOU, K.C.; WINSSINGER, N.; PASTOR, J.; NINKOVIC, S.; SARABIA, F.; HE, Y.; VOURLOUMIS, D.; YANG, Z.; LI, T.; GIANNAKAKOU, P.; HAMEL, E. Synthesis of Epothilones A and B in Solid and Solution Phase. Nature, Vol. 387, May 15, 1997, Pages 268-272.	
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		MULZER, J. Epothilone B and Its Derivatives as Novel Antitumor Drugs: Total and Partial Synthesis and Biological Evaluation. Monatshefte fur Chemie 2000, Vol. 131, Pages 205-238.	

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		NICOLAOU, K.C.; HEPWORTH, D.; KING, N.P.; FINLAY, M.R.V.; SCARPELLI, R.; MANUELA, M.; PEREIRA, A.; BOLLMUCK, B.; BIGOT, A.; WERSCHKUN, B.; WINSSINGER, N. Total Synthesis of 16-Desmethyllepothilone B, Epothilone B10.	
		Epothilone F, and Related Side Chain Modified Epothilone B Analogues. European Chemical Journal 2000, Vol. 6, Pages 2783-2800.	

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